

## COAL MINING AND RECLAMATION PERMIT APPLICATION TO REVISE A PERMIT (ARP)

**Issued To:** AMERICAN ENERGY CORP  
43521 Mayhugh Hill Rd.  
Twp Hwy 88  
Beallsville, OH 43716

**Permit Number:** D-425  
**Application Number** R-425-19

**Telephone:** (740) 926-9152

**Effective:** 10/03/2007

**Expires:** 10/21/2009

**ARP Type:**

Quarterly Monitoring Sites (QMR) - Addition

Quarterly Monitoring Sites (QMR) - Deletion

The issuance of this ARP means only that the application to conduct a coal mining operation meets the requirements of Chapter 1513 of the Revised Code, and as such DOES NOT RELIEVE the operator of any obligation to meet other federal, state or local requirements.

This ARP is issued in accordance with and subject to the provisions, conditions, and limitations of Chapter 1513 of the Revised Code and Chapters 1501:13-1, 1501:13-3 through 1501:13-14 of the Administrative Code.

The approved water monitoring plan for this ARP is:

**Quality:** N/A

**Quantity:** N/A

**Note:** Any previous condition(s) imposed on this permit, or subsequent adjacent areas, also apply to this ARP unless noted otherwise.

**Signature:**

Chief, Mineral Resources Management

**Date:** 10/03/2007

RECEIVED

FEB - 7 2007

DIVISION OF MINERAL  
RESOURCES MANAGEMENT

OHIO DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINERAL RESOURCES MANAGEMENT

APPLICATION TO REVISE A COAL MINING PERMIT

Note: Refer to the division's "General Guidelines for Processing ARPs" and "Requirements for Specific Types of Common ARPs" for guidance on submitting and processing ARPs.

1. Applicant's Name **American Energy Corporation**  
Address **43521 Mayhugh Hill Road**  
City **Beallsville** State **Ohio** Zip **43716**  
Telephone Number **740-926-9152**
2. Permit Number **D-0425**
3. Section of mining and reclamation to be revised:  
**Part 3, F(3)**
4. Describe in detail the proposed revision and submit any necessary drawings, plans, maps, etc:  
  
**Monitoring wells CG-01-5A, CG-01-5B, and CG-01-5C are being abandoned.**
5. Describe in detail the reason for requesting the revision:  
  
**The above referenced monitoring wells are being properly abandoned to allow for additional refuse disposal. New monitoring wells, CG-06-01-S and CG-06-01D, have been installed approximately 1475 feet southeast, at comparable surface elevations, to replace the above referenced wells to be abandoned.**
6. Will this revision constitute a significant alteration from the mining and reclamation operations contemplated in the original permit? ☐ Yes, ☒ No.  
(Note: refer to paragraph (E)(2) of 1501:13-04-06 of the Ohio Administrative Code to determine if a revision is deemed significant.)  
  
If "yes," complete the following items 7 through 9.
7. In the space below, give the name and address of the newspaper in which the public notice is to be published.
8. In the space below, give the text of the public notice that is to be published. (Include the information required by paragraph (A)(1) of 1501:13-05-01 of the Ohio Administrative Code.)

ORIGINAL

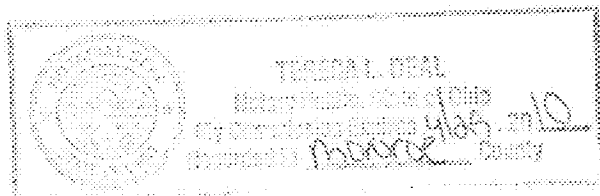
9. In the space below, give the name and address of the public office where this application is to be filed for public viewing.

I, the undersigned, a responsible official of the applicant, do hereby verify the information contained in this revision request is true and correct to the best of my information and belief.

Print Name Russ M. Mueggler Title GENERAL MANAGER

Signature Russ M. Mueggler Date 02/05/07

Sworn before me and subscribed in my presence this 5<sup>th</sup> day of February, 2007



Tessal L. Deal  
Notary Public

(For Division Use Only)

This application for renewal is hereby ☒ issued, ☐ disapproved.

SWR Kull Date 10-3-07  
Chief, Division of Mineral Resources Management

ORIGINAL

# MONITOR WELL INSTALLATION LOG

HYDROGEOLOGIC INVESTIGATION - COARSE COAL REFUSE DISPOSAL FACILITY  
CENTURY MINE  
SECTION 3, WAYNE TOWNSHIP, BELMONT CO., OHIO

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RESOURCES

Well No.: CG-01-5A

Collar Elevation (feet, msl): 1161.07  
Location: N 695,518.10 E 2,412,309.91  
Date Started: 12 March 2001  
Date Completed: 20 March 2001  
Water Depth: 203.12 feet  
Water Elevation: 957.95 feet, msl

## Well Materials List

1. Well casing: 2" ID, Sch 40 PVC
2. Joint type: Flush thread
3. Grout type: Bentonite
4. Grout quantity: 55 bags
5. Well screen: 2" ID, 10 LF
6. Screen type: Machine cut Sch 40 PVC
7. Slot size: 0.010
8. Bentonite seal: Bentonite pellets, 1 bucket
9. Filter pack type: 430 silica stone
10. Filter pack quantity: 4 bags
11. Installation method: Gravity

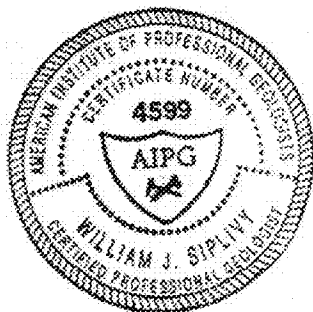
## Drilling

1. Contractor: McKay & Gould, Drilling, Inc.
2. Driller: Randy McKay
3. Method: Air rotary, 6 & 8" diameter
4. Weather: Partly cloudy w/rain, high 30's
5. Supervision: William J. Siplivy

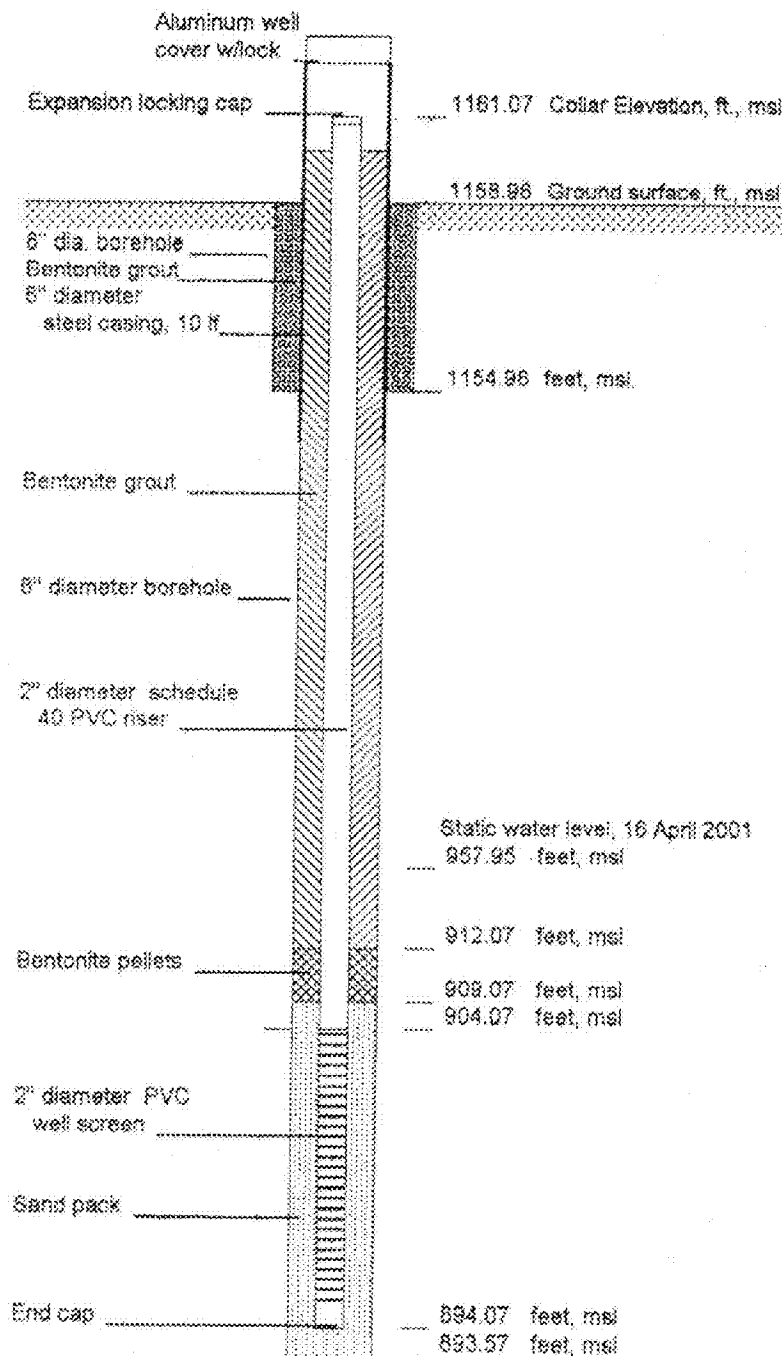
Respectfully submitted,

*William J. Siplivy*

William J. Siplivy  
Certified Professional Geologist  
No. 4599, AIPG



CG-01-5A WK4



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WJS

# MONITOR WELL INSTALLATION LOG

HYDROGEOLOGIC INVESTIGATION - COARSE COAL REFUSE DISPOSAL FACILITY  
CENTURY MINE  
SECTION 3, WAYNE TOWNSHIP, BELMONT CO., OHIO

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Well No.: CG-01-5B

DIVISION OF MINERAL  
RESOURCES MANAGEMENT

Collar Elevation (feet, msl): 1160.16  
Location: N 895,537.87 E 2,412,307.73  
Date Started: 20 March 2001  
Date Completed: 20 March 2001  
Water Depth: 77.06 feet  
Water Elevation: 1083.1 feet, msl

## Well Materials List

1. Well casing: 2" ID, Sch 40 PVC
2. Joint type: Flush thread
3. Grout type: Bentonite
4. Grout quantity: 14 bags
5. Well screen: 2" ID, 10 LF
6. Screen type: Machine cut Sch 40 PVC
7. Slot size: 0.010
8. Bentonite seal: Bentonite pellets, 1 bucket
9. Filter pack type: 430 silica stone
10. Filter pack quantity: 3 bags
11. Installation method: Gravity

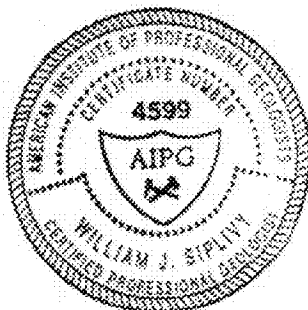
## Drilling

1. Contractor: McKay & Gould, Drilling, Inc.
2. Driller: Randy McKay
3. Method: Air rotary, 6 & 8" diameter
4. Weather: Partly cloudy, high 40's
5. Supervision: William J. Sipivy

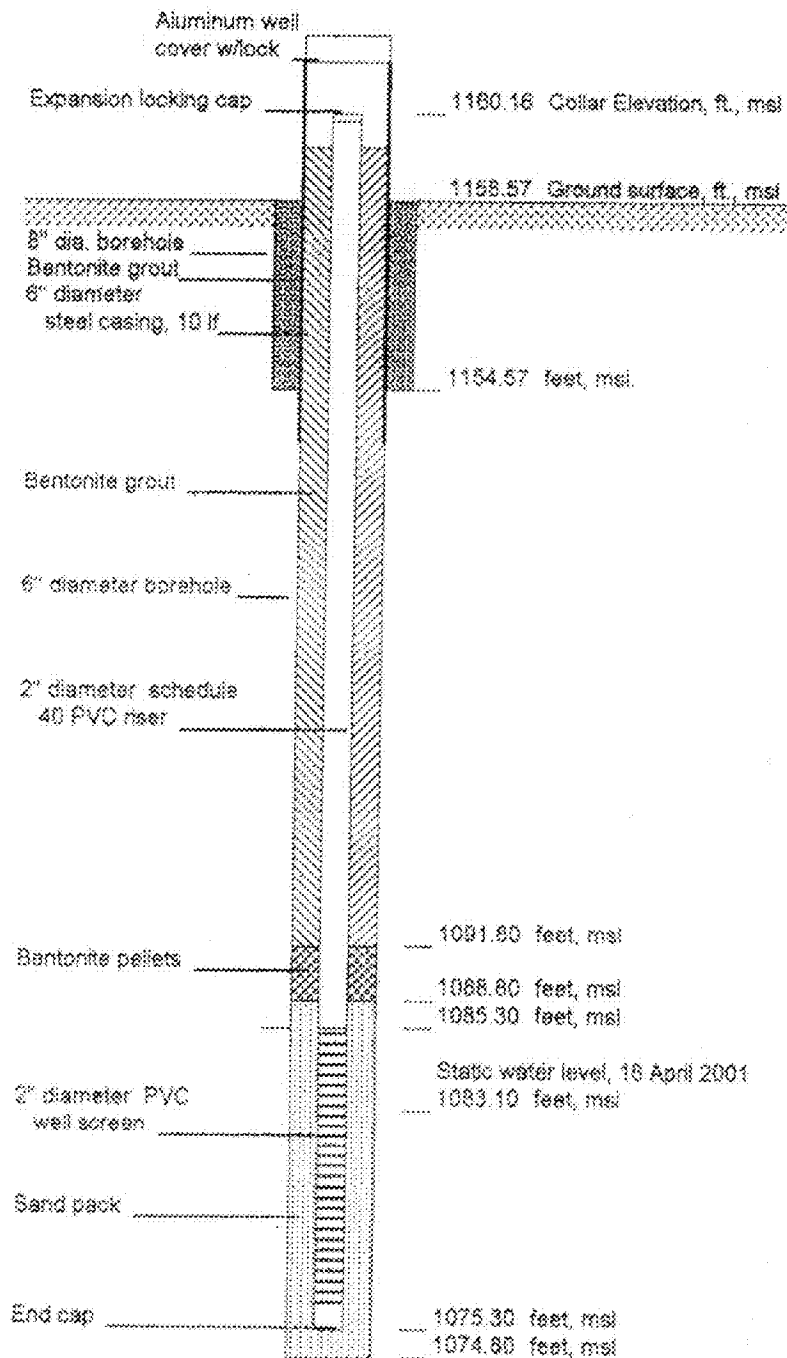
Respectfully submitted,

*William J. Sipivy*

William J. Sipivy  
Certified Professional Geologist  
No. 4599, AIPG



CG-01-5B:WK4



ORIGINAL

WJS

# MONITOR WELL INSTALLATION LOG

HYDROGEOLOGIC INVESTIGATION - COARSE COAL REFUSE DISPOSAL FACILITY  
CENTURY MINE  
SECTION 3, WAYNE TOWNSHIP, BELMONT CO., OHIO

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DIVISION OF MINERAL  
RESOURCES MANAGEMENT

Well No.: CG-01-5C

Collar Elevation (feet, msl): 1160.86  
Location: N 695,526.14 E 2,412,308.76  
Date Started: 20 March 2001  
Date Completed: 20 March 2001  
Water Depth: 7.24 feet  
Water Elevation: 1153.62 feet, msl

## Well Materials List

1. Well casing: 2" ID, Sch 40 PVC
2. Joint type: Flush thread
3. Grout type: Bentonite
4. Grout quantity: 2 bags
5. Well screen: 2" ID, 10 LF
6. Screen type: Machine cut Sch 40 PVC
7. Slot size: 0.010
8. Bentonite seal: Bentonite pellets, 1 bucket
9. Filter pack type: 430 silica stone
10. Filter pack quantity: 5 bags
11. Installation method: Gravity

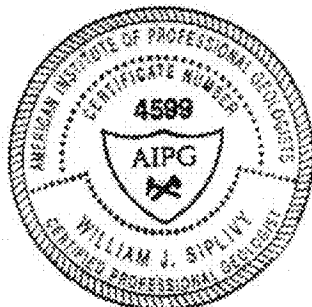
## Drilling

1. Contractor: McKay & Gould, Drilling, Inc.
2. Driller: Randy McKay
3. Method: Air rotary, 8 & 6" diameter
4. Weather: Partly cloudy, high 40's
5. Supervision: William J. Siplivy

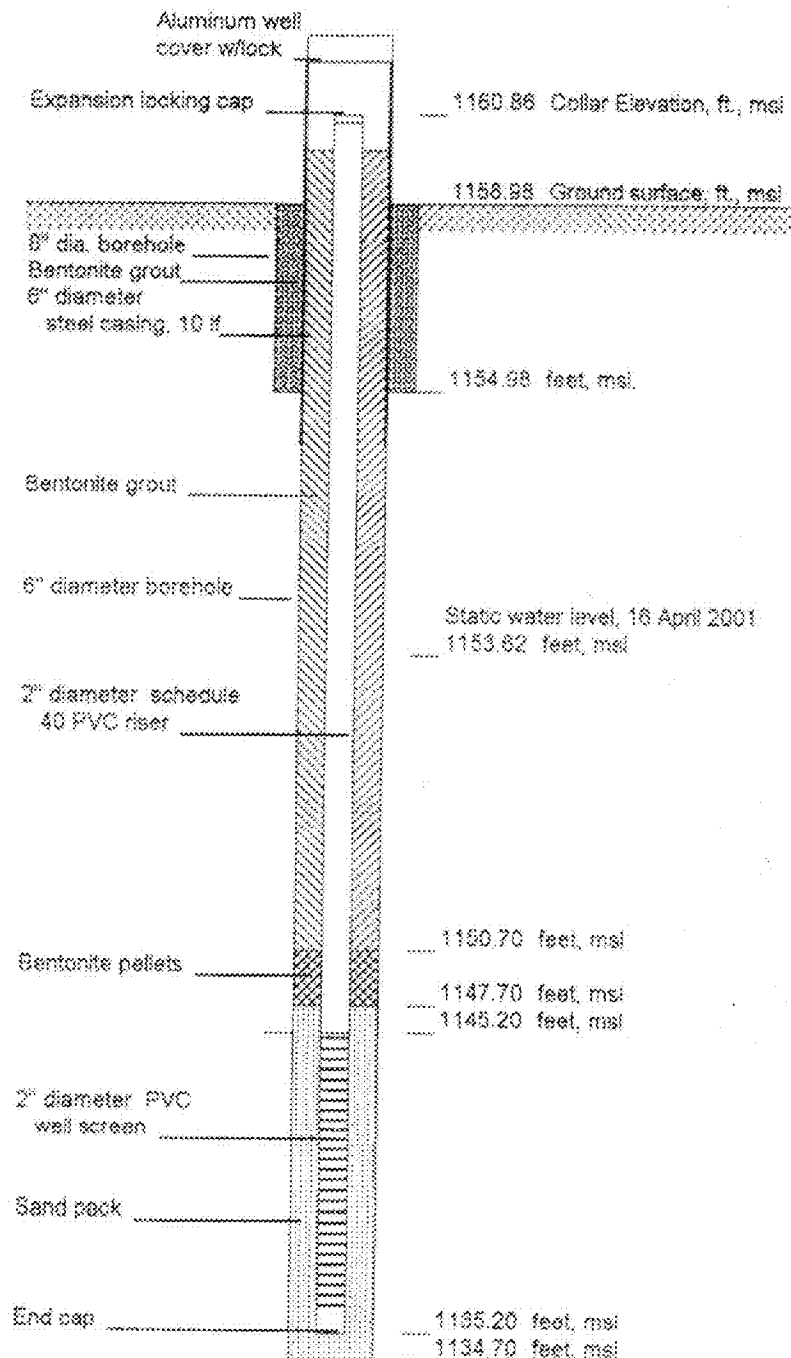
Respectfully submitted,

*William J. Siplivy*

William J. Siplivy  
Certified Professional Geologist  
No. 4599, AIPG



CG-01-5C.WK4



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WJS

# MONITOR WELL INSTALLATION LOG

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OWNER: AMERICAN ENERGY CORPORATION

PROJECT: HYDROGEOLOGIC INVESTIGATION - No. 2 COARSE COAL REFUSE DISPOSAL AREA

LOCATION: SECTION 3, WAYNE TOWNSHIP, BELMONT COUNTY, OHIO

FEB - 7 2007

DIVISION OF MINERAL  
RESOURCE MANAGEMENT

Well No.: CG-06-1S

Collar Elevation (feet, msl): 1161.49  
Location: N 694,168.20 E 2,412,882.12  
Date Started: 20 July 2006  
Date Completed: 20 July 2006  
Well Depth \* (feet): 88.00  
Groundwater Depth \* (feet): 82.93  
Water Elevation (feet, msl): 1078.58

## Well Materials List

1. Well casing: 2" ID, Sch 40 PVC
2. Joint type: Flush thread
3. Grout type: Bentonite
4. Grout quantity: 16 bags
5. Well screen: 2" ID, 10 LF
6. Screen type: Machine cut Sch 40 PVC
7. Silt size: 0.010
8. Bentonite seal: Bentonite pellets, 1 bucket
9. Filter pack type: 430 silica stone
10. Filter pack quantity: 3 bags
11. Installation method: Gravity

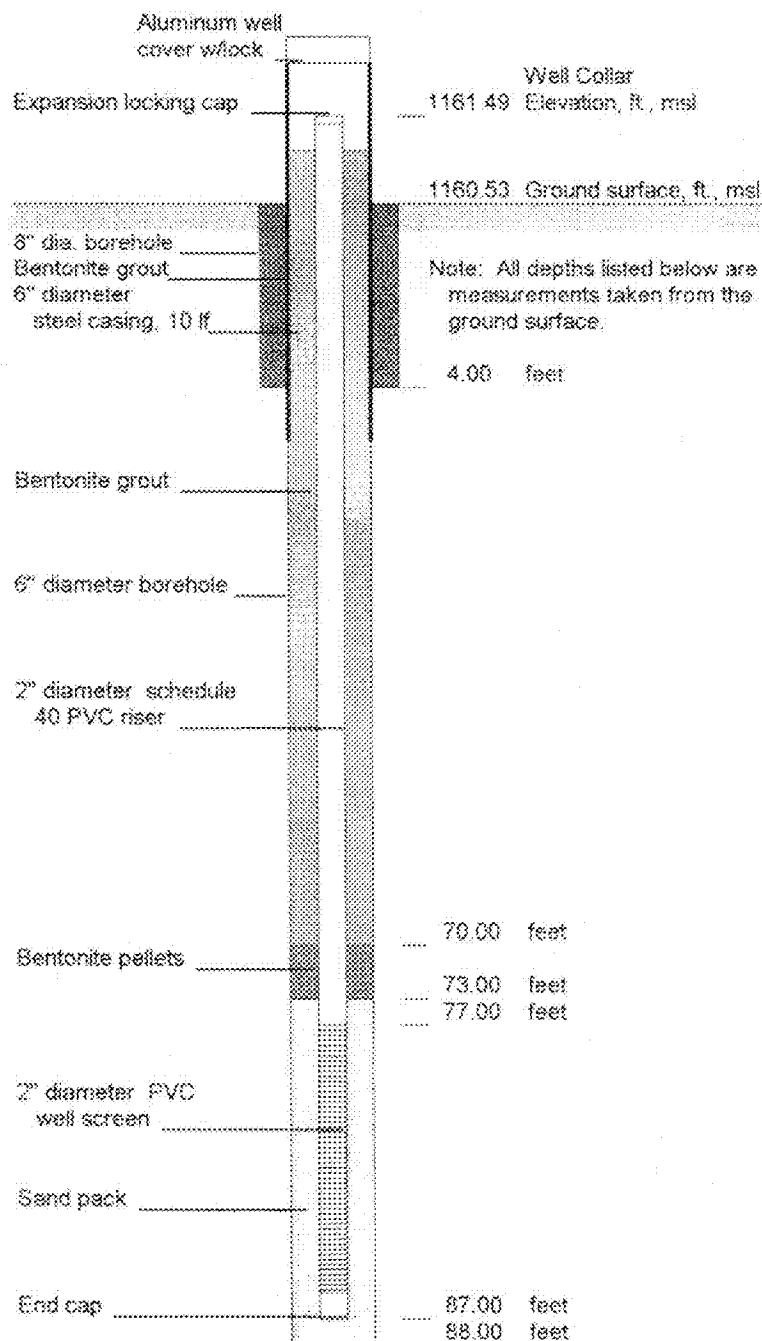
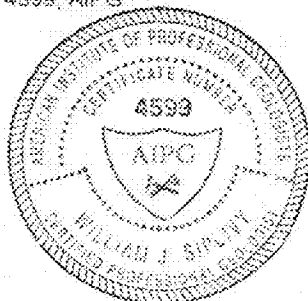
## Drilling

1. Contractor: McKay & Gould Drilling, Inc.
2. Driller: Randy McKay
3. Method: Air rotary, 6 & 8" diameter
4. Weather: Sunny, mid 80's
5. Supervision: William J. Siplivy

Respectfully submitted,

*William J. Siplivy*

William J. Siplivy  
Certified Professional Geologist  
No. 4599, AIPG



Note: (\*) Well depth and depth to groundwater measured from well collar (top of 2" PVC riser pipe).  
Static groundwater level measured on 7 August 2006.

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## MONITOR WELL INSTALLATION LOG

OWNER: AMERICAN ENERGY CORPORATION  
 PROJECT: HYDROGEOLOGIC INVESTIGATION - No. 2 COARSE COAL REFUSE DISPOSAL AREA  
 LOCATION: SECTION 3, WAYNE TOWNSHIP, BELMONT COUNTY, OHIO

DIVISION OF MINERAL  
RESOURCES MANAGEMENT

Well No.: CG-05-1D

Collar Elevation (feet, msl): 1160.80  
 Location: N 894,163.63 E 2,412,892.27  
 Date Started: 19 July 2006  
 Date Completed: 20 July 2006  
 Well Depth \* (feet): 137.00  
 Groundwater Depth \* (feet): 127.00  
 Water Elevation (feet, msl): 1033.80

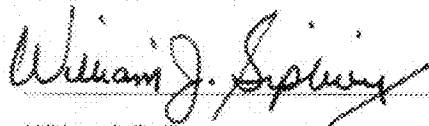
## Well Materials List

1. Well casing: 2" ID, Sch 40 PVC
2. Joint type: Flush thread
3. Grout type: Bentonite
4. Grout quantity: 28 bags
5. Well screen: 2" ID, 10 LF
6. Screen type: Machine cut Sch 40 PVC
7. Slot size: 0.010
8. Bentonite seal: Bentonite pellets, 1 bucket
9. Filter pack type: 430 silica stone
10. Filter pack quantity: 3 bags
11. Installation method: Gravity

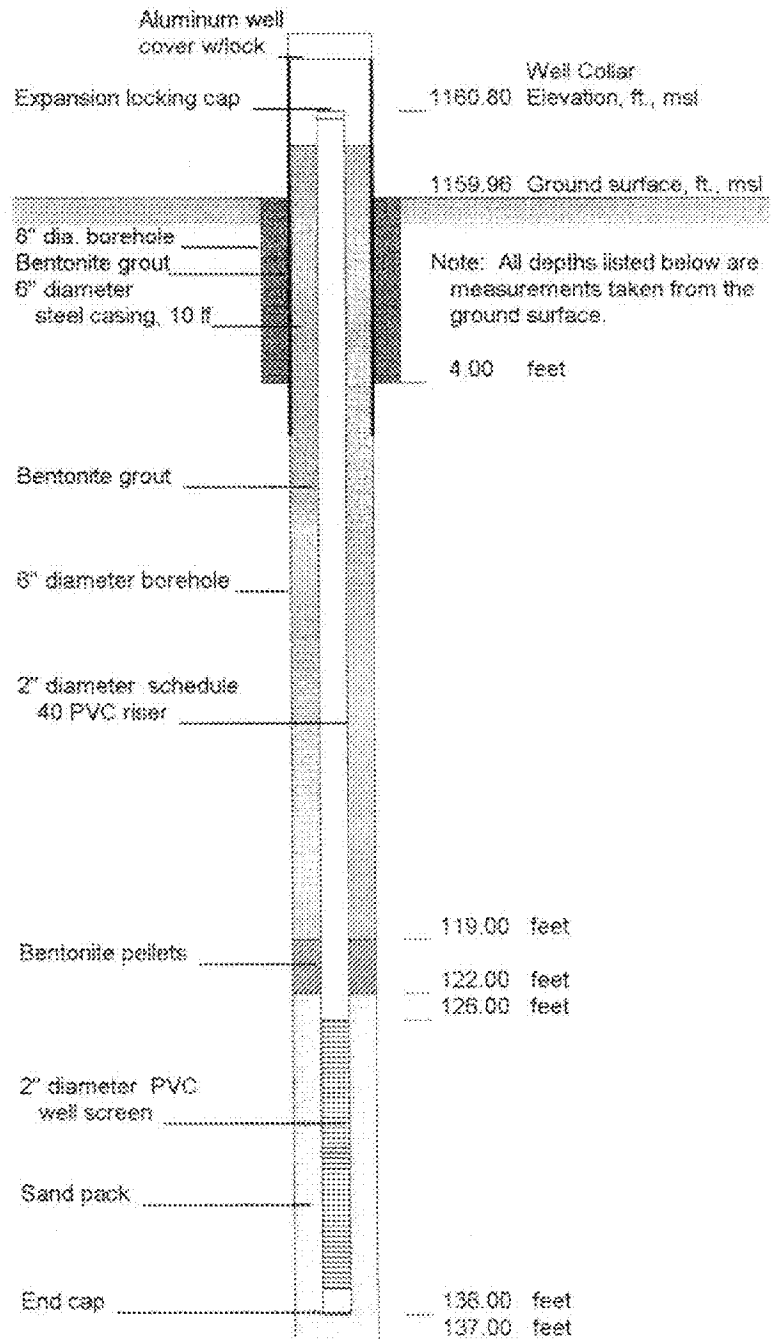
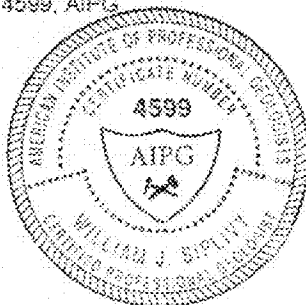
## Drilling

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2. Driller: Randy McKay
3. Method: Air rotary, 6 & 8" diameter
4. Weather: Sunny, mid 80's
5. Supervision: William J. Siplivy

Respectfully submitted,



William J. Siplivy  
 Certified Professional Geologist  
 No. 4599, AIPG



Note: (\*) Well depth and depth to groundwater measured from well collar (top of 2" PVC riser pipe).  
 Static groundwater level measured on 7 August 2006.

ORIGINAL

AEC 19831



**ARP REVIEW TRACKING SHEET**

<b>APPLICANT</b>	American Energy Corp.	<b>ARP #</b>	R-425-19
<b>ARP SUMMARY</b>	QMR Deletion & Replacement		
<b>DISTRICT</b>	Cambridge	<b>APP. MANAGER</b>	Treva Knasel
<b>DATE RECEIVED BY APPLICATION MANAGER</b>	2-7-2007		

	YES	NO
1. Is the ARP a <b>SIGNIFICANT REVISION</b> ? If yes, complete and attach significant ARP Cover Sheet.		X
2. Were there public comments and/or an informal conference requested? If yes, a written response must be sent to those providing comments at the time the ARP is either approved or disapproved.		

**INITIAL REVIEW**

Check applicable reviewers and indicate date(s) the ARP was distributed and comments returned		Date Sent for Review	Date Response	ACCEPTABLE	
				YES	NO
<input type="checkbox"/>	Jack Johannes (Soils)				
<input type="checkbox"/>	Mike Mann (Blasting)				
<input type="checkbox"/>	Scott Stiteler (Ownership)				
<input type="checkbox"/>	Engineer:				
X	Hydrologist: Mike Dillman	3-8-2007	10-3-07	✓	
X	Inspector: John Peterbaugh	3-8-2007	4-13-07	✓	
<input type="checkbox"/>	Field ES:				
<input type="checkbox"/>	Other:				
<b>Date Revisions Sent to Applicant</b>				<b>Revisions Rec'd from Applicant</b>	

**SECOND REVIEW**

Check applicable reviewers and indicate date(s) the ARP was distributed and comments returned		Date Sent for Review	Date Response	ACCEPTABLE	
				YES	NO
<input type="checkbox"/>	Jack Johannes (Soils)				
<input type="checkbox"/>	Mike Mann (Blasting)				
<input type="checkbox"/>	Scott Stiteler (Ownership)				
<input type="checkbox"/>	Engineer:				
<input type="checkbox"/>	Hydrologist:				
<input type="checkbox"/>	Field ES:				
<input type="checkbox"/>	Inspector:				
<input type="checkbox"/>	Other:				
<b>Date Revisions Sent to Applicant</b>				<b>Revisions Rec'd from Applicant</b>	

43521 Mayhugh Hill Road  
Twp. Hwy. 88  
Beallsville, Ohio 43716  
Phone: 740-926-9152

# American Energy Corporation

February 5 2007

Treva Knasel  
Division of Mineral Resources Management  
2045 Morse RD. Bldg. 2  
Columbus, Ohio 43229-6693

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DIVISION OF MINERAL  
RESOURCES MANAGEMENT

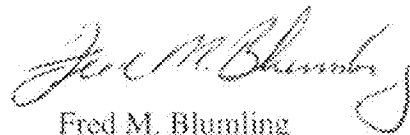
Re: ARP D-0425 Monitoring Wells

Dear Ms. Knasel:

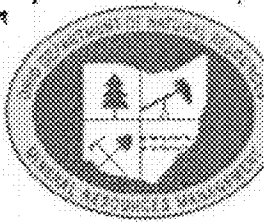
Please find attached our ARP for the above permit regarding the monitoring wells that will be abandon with new monitoring wells installed for replacement.

If you have any questions or need additional information please feel free to contact me your convenience.

Yours truly,



Fred M. Blumling  
Environmental Engineer



## ARP REVIEW DUE DATE LETTER

**Applicant:** AMERICAN ENERGY CORP

**ARP Number:** R-425-19

**Summary:**

Quarterly Monitoring Sites (QMR) - Addition

Quarterly Monitoring Sites (QMR) - Deletion

**District:** CAMBRIDGE

**Application Manager:** Treva Knasel

**Date Received by Application Manager:** 02/07/2007

This sheet is to be completed by the Permitting, Hydrology Bonding Section Application Manager and attached to any ARP documents that are being sent to technical and other staff for review. A separate sheet is to be completed for each reviewer.

**Date Sent:** 03/08/2007

**Date Review Due:** 03/29/2007

- ☒ Hydrologist: Mike Dillman
- ☒ Inspector: John Puterbaugh
- ☐ Field Team Leader:
- ☐ Environmental Specialist:
- ☐ Engineer:
- ☐ Blasting Plan:
- ☐ Soil Scientist:
- ☐ Archaeologist:

If applicable, date ARP was put on public file: \_\_\_\_\_

**COMMENTS:**

I have reviewed the ARP documents and following this review find the material and information provided by the applicant to be:

- ☒ **ACCEPTABLE** No further revision(s) is required. The ARP is for activity that complies with current regulatory requirements
- ☐ **UNACCEPTABLE** Additional revisions are needed as outlined in the attached document.

**Signature:**

**Date:**

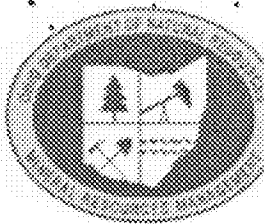
4-13-07

A4 Rev: 07/01/2001

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APR 16 2007

DIVISION OF MINERAL  
RESOURCES MANAGEMENT



## ARP REVIEW DUE DATE LETTER

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- ☐ Archaeologist:

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- ☐ **UNACCEPTABLE** Additional revisions are needed as outlined in the attached document.

**Signature:**

**Date:**

10/3/07